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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/018,220	04/26/2002	Nevio Vidovic	000515-281	3449
21839	7590 11/20/2003		EXAMINER	
BURNS DOANE SWECKER & MATHIS L L P			NGUYEN, TU T	
	CE BOX 1404 UA, VA 22313-1404		ART UNIT PAPER NUMBER	
	,		2877	

DATE MAILED: 11/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		MI				
1	Application No.	Applicant(s)				
	10/018,220	VIDOVIC ET AL.				
Office Action Summary	Examin r	Art Unit				
	Tu T. Nguyen	2877				
Th MAILING DATE of this communication	appears on the c_ver sheet	with the correspond nce address				
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATIO  Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  If the period for reply specified above is less than thirty (30) days, a  If NO period for reply is specified above, the maximum statutory per Failure to reply within the set or extended period for reply will, by sta  Any reply received by the Office later than three months after the may earned patent term adjustment. See 37 CFR 1.704(b).  Status	N. 1.136(a). In no event, however, may reply within the statutory minimum of iod will apply and will expire SIX (6) Netute, cause the application to become	a reply be timely filed  thirty (30) days will be considered timely.  ONTHS from the mailing date of this communication.  ABANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 05	5 August 2003.					
2a)⊠ This action is <b>FINAL</b> . 2b)□ Th	nis action is non-final.					
3) Since this application is in condition for allow closed in accordance with the practice under the condition of the condition.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-8,12 and 13</u> is/are pending in the	e application.					
4a) Of the above claim(s) is/are without	Irawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8,12 and 13</u> is/are rejected.	Claim(s) <u>1-8,12 and 13</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exam	iner.					
10)☐ The drawing(s) filed on is/are: a)☐ a	ccepted or b) objected	to by the Examiner.				
Applicant may not request that any objection to t	he drawing(s) be held in abe	vance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corr			<b>)</b> .			
11) The oath or declaration is objected to by the	Examiner. Note the attack	ned Office Action or form PTO-152.				
Priority under 35 U.S.C. §§ 119 and 120						
12) △ Acknowledgment is made of a claim for fore a) △ All b) □ Some * c) □ None of:  1. □ Certified copies of the priority docume 2. □ Certified copies of the priority docume 3. △ Copies of the certified copies of the p	ents have been received. ents have been received in riority documents have be eau (PCT Rule 17.2(a)).	n Application No en received in this National Stage				
* See the attached detailed Office action for a state of a claim for dome since a specific reference was included in the 37 CFR 1.78.  a)  The translation of the foreign language of a claim for dome state of a claim for dome o	estic priority under 35 U.S. first sentence of the speci provisional application has estic priority under 35 U.S.	C. § 119(e) (to a provisional application fication or in an Application Data She been received. C. §§ 120 and/or 121 since a specific	et.			
reference was included in the first sentence o	i die specification of in an	Арріісаціоп Data Sneet. 37 СРК 1.78	•			
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>D Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> </ol>		w Summary (PTO-413) Paper No(s) of Informal Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s	s) 6) 🔲 Other:					

Serial Number: 10/018,220 Filing Date: 04/26/02

#### **Detailed Office Action**

### Claim Rejections - 35 U.S.C. § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 1 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 22, "said optical connection" is not clear and lack of antecedent and basis.

What is "optical connection"?

#### Claim Rejections - 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8,12-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sundburg et al (5,747,793).

With respect to claims 1,3, Sundburg discloses a method of compensating for bending of an optical fiber. The method comprises: a sensor element (fig 1b) connected to a measuring 1 (fig

1a) and control unit via optical fiber 199 (fig 1a), transmitting a reference light 108 (fig 1a) and a measured light 107 (fig 1a) which having different wavelengths (columns 5-6), measuring 111 (fig 1a) the reference light without being influenced by the sensor  $\lambda(R)$  (fig 1b) and measuring a measured light after being influence by the sensor  $\lambda(S)$  (fig 1b).

Sundburg discloses compensating for bending of the optical fiber (columns 5-6).

Sundburg does not disclose compensating for bending of the optical fiber by reference to correction data based upon pre-stored data. However, it would have been obvious to modify Sundburg's system to compensate for bending of the optical fiber by reference to a correction data based upon pre-stored data to speed up the process and make the system more efficient.

With respect to claims 2,6, Sundburg discloses a rotator 502 (fig 5b) for varying the amount of light reaches to the mirror 512 (fig 5b) (column 8, lines 10-25). By varying the amount of light reaches to the mirror 512, it would have been obvious that the measuring signal would cause optical interference.

With respect to claim 4, Sundburg discloses that the sensor can be modified for pressure measurement (column 8, lines 1-5).

With respect to claim 5, refer to discussion in claim 1 above. Further, Sundburg does not disclose using a second detector. However, it would have been oblivious to modify Sundburg's system with a plurality of detectors to detect different reflected lights to facilitate the measurement.

With respect to claims 7-8, it would have been obvious a design choice to modify Sundburg's cavity 502 (fig 5b) with different material for measuring different physical parameters.

With respect to claims 12-13, Sundburg discloses the claimed limitations (fig 6a).

## Response to Arguments

Since Applicant amended the claims, it is necessary for the Examiner to make this action final.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tu T Nguyen whose telephone number is (703) 306-9185. The examiner can normally be reached on T-F 7:30-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Frank G Font can be reached on (703) 308-4881. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Tu T. Nguyen Primary Examiner

Group Art Unit 2877